

Recovery Plan Action Status

Plan Name: Florida Scrub and High Pineland Plants (19 spp.)

Plan Status: Final Revision 1

Plan Date: 20-Jun-96

Lead Agency: USFWS

Lead Office: North Florida Ecological Services Field Office

**(904)
232-2580)**

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Scrub lupine (Lupinus aridorum), Scrub buckwheat (Eriogonum longifolium var. gnaphalifolium), Scrub plum (Prunus geniculata), Florida bonamia (Bonamia grandiflora), Britton's beargrass (Nolina brittoniana)	2	1.1	Maintain an inventory of sites & species	Ongoing Current	FY 1995 - FY 1999		Florida Natural Areas Inventory, Managers of public and private lands with these listed species	Research: Population Surveys	Labor type not yet selected	Applies to Prunus, Bonamia, Eriogonum, Nolina, and Lupinus only. Nolina, Bonamia, and Eriogonum not as intensively surveyed as others. The remaining species are now covered by the South Florida Multi-Species Recovery Plan.
Scrub lupine (Lupinus aridorum), Scrub buckwheat (Eriogonum longifolium var. gnaphalifolium), Scrub plum (Prunus geniculata), Florida bonamia (Bonamia grandiflora), Britton's beargrass (Nolina brittoniana)	2	1.2.5	Surveys in "outlying" counties	Partially Complete	FY 1995 - FY 1999		Florida Natural Areas Inventory, U.S. Fish and Wildlife Service, Southeast Region, Ecological Services	Research: Population Surveys	Labor type not yet selected	Completed for Lupinus in 1999. Status of this action is unknown for Eriogonum, Bonamia, Nolina, and Prunus. For all other species, refer to the South Florida Multi-Species Recovery Plan. Scrub buckwheat surveys were completed by FNAI in 2010.
Scrub lupine (Lupinus aridorum), Scrub buckwheat (Eriogonum longifolium var. gnaphalifolium), Scrub plum (Prunus geniculata), Florida bonamia (Bonamia grandiflora), Britton's beargrass (Nolina brittoniana)	1	1.3	Continue land acquisition	Ongoing Current	FY 1995 - FY 1999		County governments, Universities, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife, The Nature Conservancy, Florida Chapter, Florida Department of Environmental Protection, Division of State Lands	Acquisition	Labor type not yet selected	Applies to Prunus, Bonamia, Eriogonum, Nolina, and Lupinus only. The remaining species are now covered by the South Florida Multi-Species Recovery Plan.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Scrub lupine (Lupinus aridorum), Scrub buckwheat (Eriogonum longifolium var. gnaphalifolium), Scrub plum (Prunus geniculata), Florida bonamia (Bonamia grandiflora), Britton's beargrass (Nolina brittoniana)	2	1.4.1	Ensure that habitat conservation plans for animals help conserve plants	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Southeast Region, Ecological Services	Other: Regulations	Labor type not yet selected	Applies to Prunus, Bonamia, Eriogonum, Nolina, and Lupinus only. The remaining species are now covered by the South Florida Multi-Species Recovery Plan.
Scrub lupine (Lupinus aridorum), Scrub buckwheat (Eriogonum longifolium var. gnaphalifolium), Scrub plum (Prunus geniculata), Florida bonamia (Bonamia grandiflora), Britton's beargrass (Nolina brittoniana)	3	1.4.2	Use conservation easements, etc. to conserve habitats	Unknown			All parties	Work type not yet selected	Labor type not yet selected	The status of this action is unknown for Eriogonum, Bonamia, Nolina, Prunus, and Lupinus. For all other species, refer to the South Florida Multi-Species Recovery Plan.
Scrub lupine (Lupinus aridorum), Scrub buckwheat (Eriogonum longifolium var. gnaphalifolium), Scrub plum (Prunus geniculata), Florida bonamia (Bonamia grandiflora), Britton's beargrass (Nolina brittoniana)	2	1.4.3	Arrange land protection through regional/local planning	Unknown			County governments, Regional Planning Councils	Work type not yet selected	Labor type not yet selected	Applies to Prunus, Bonamia, Eriogonum, Nolina, and Lupinus only. The remaining species are now covered by the South Florida Multi-Species Recovery Plan.
Scrub lupine (Lupinus aridorum), Scrub buckwheat (Eriogonum longifolium var. gnaphalifolium), Scrub plum (Prunus geniculata), Florida bonamia (Bonamia grandiflora), Britton's beargrass (Nolina brittoniana)	2	1.4.4	Arrange protection & management of small sites	Ongoing Current	FY 1995 - FY 1999		Landowners , Utilities, Arbuckle Working Group of land managers in Polk and Highlands Counties, Managers of public and private lands with these listed species	Acquisition: General	Labor type not yet selected	Applies to Nolina, Eriogonum, and Lupinus only. Status of this action is unknown for Prunus and Bonamia. For all other species, refer to the South Florida Multi-Species Recovery Plan.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Scrub lupine (Lupinus aridorum), Scrub buckwheat (Eriogonum longifolium var. gnaphalifolium), Scrub plum (Prunus geniculata), Florida bonamia (Bonamia grandiflora), Britton's beargrass (Nolina brittoniana)	1	2.1	Develop model fire management plans	Partially Complete	FY 1995 - FY 1999		Florida Department of Agriculture and Consumer Services, including Forestry Division, United States Air Force , U.S. Fish and Wildlife Service, Division of Refuges and Wildlife, The Nature Conservancy, Florida Chapter, Florida Department of Environmental Protection, Division of Recreation and Parks, Arbuckle Working Group of land managers in Polk and Highlands Counties, Experts from outside any of the referenced agencies, Palm Beach County, Department of Environmental Resources Management	Management: Planning	Labor type not yet selected	Applies to Prunus, Bonamia, Eriogonum, Nolina, and Lupinus only. The remaining species are now covered by the South Florida Multi-Species Recovery Plan.
Scrub lupine (Lupinus aridorum), Scrub buckwheat (Eriogonum longifolium var. gnaphalifolium), Scrub plum (Prunus geniculata), Florida bonamia (Bonamia grandiflora), Britton's beargrass (Nolina brittoniana)	1	2.2	Inventory each protected site	Partially Complete	FY 1995 - FY 1999		County governments, Florida Department of Agriculture and Consumer Services, including Forestry Division, United States Air Force , Private Individual, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife, The Nature Conservancy, Florida Chapter, Florida Department of Environmental Protection, Division of Recreation and Parks, Arbuckle Working Group of land managers in Polk and Highlands Counties, Florida Department of Environmental Protection, Division of State Lands	Research: Population Surveys	Labor type not yet selected	Applies to Prunus, Bonamia, Eriogonum, Nolina, and Lupinus only. The remaining species are now covered by the South Florida Multi-Species Recovery Plan.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Scrub lupine (Lupinus aridorum), Scrub buckwheat (Eriogonum longifolium var. gnaphalifolium), Scrub plum (Prunus geniculata), Florida bonamia (Bonamia grandiflora), Britton's beargrass (Nolina brittoniana)	2	2.3	Conduct initial conservation measures at protected sites	Partially Complete	FY 1995 - FY 1999		Managers of public and private lands with these listed species	Management: General, Management: Habitat Maintenance and Manipulation, Management: Land Use, Management: Planning, Management: Population Monitoring	Labor type not yet selected	Applies to Prunus, Bonamia, Eriogonum, Nolina, and Lupinus only. The remaining species are now covered by the South Florida Multi-Species Recovery Plan.
Scrub lupine (Lupinus aridorum), Scrub buckwheat (Eriogonum longifolium var. gnaphalifolium), Scrub plum (Prunus geniculata), Florida bonamia (Bonamia grandiflora), Britton's beargrass (Nolina brittoniana)	1	2.4.1	Establish management objectives at each site	Partially Complete	FY 1995 - FY 1999		Florida Department of Agriculture and Consumer Services, including Forestry Division, United States Air Force , U.S. Fish and Wildlife Service, Division of Refuges and Wildlife, The Nature Conservancy, Florida Chapter, Florida Department of Environmental Protection, Division of Recreation and Parks, Arbuckle Working Group of land managers in Polk and Highlands Counties, Experts from outside any of the referenced agencies, Palm Beach County, Department of Environmental Resources Management	Management: Planning	Labor type not yet selected	Applies to Prunus, Bonamia, Eriogonum, Nolina, and Lupinus only. The remaining species are now covered by the South Florida Multi-Species Recovery Plan.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Scrub lupine (Lupinus aridorum), Scrub buckwheat (Eriogonum longifolium var. gnaphalifolium), Scrub plum (Prunus geniculata), Florida bonamia (Bonamia grandiflora), Britton's beargrass (Nolina brittoniana)	1	2.4.2	Develop fire management and other management service plans	Partially Complete	FY 1995 - FY 1999		Florida Department of Agriculture and Consumer Services, including Forestry Division, United States Air Force , U.S. Fish and Wildlife Service, Division of Refuges and Wildlife, The Nature Conservancy, Florida Chapter, Florida Department of Environmental Protection, Division of Recreation and Parks, Arbuckle Working Group of land managers in Polk and Highlands Counties, Experts from outside any of the referenced agencies, Palm Beach County, Department of Environmental Resources Management	Work type not yet selected	Labor type not yet selected	Applies to Prunus, Bonamia, Eriogonum, Nolina, and Lupinus only. The remaining species are now covered by the South Florida Multi-Species Recovery Plan.
Scrub lupine (Lupinus aridorum), Scrub buckwheat (Eriogonum longifolium var. gnaphalifolium), Scrub plum (Prunus geniculata), Florida bonamia (Bonamia grandiflora), Britton's beargrass (Nolina brittoniana)	2	2.4.3	Control exotic pest plants	Partially Complete	FY 1995 - FY 1999		U.S. Forest Service, U.S. Dept. of Agriculture, Arbuckle Working Group of land managers in Polk and Highlands Counties, Florida Exotic Pest Plant Council, Managers of public and private lands with these listed species	Management: Predator and Competitor Control	Labor type not yet selected	Status of this action applies to Eriogonum and Bonamia only. Status of this action is unknown for Lupinus, Prunus, and Nolina. For all other species, refer to the South Florida Multi-Species Recovery Plan.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Scrub lupine (Lupinus aridorum), Scrub buckwheat (Eriogonum longifolium var. gnaphalifolium), Scrub plum (Prunus geniculata), Florida bonamia (Bonamia grandiflora), Britton's beargrass (Nolina brittoniana)	1	2.5	Provide management services at each site	Ongoing Current	FY 1995 - FY 1999		County governments, Universities, Florida Department of Agriculture and Consumer Services, including Forestry Division, United States Air Force , U.S. Fish and Wildlife Service, Division of Refuges and Wildlife, U.S. Forest Service, U.S. Dept. of Agriculture, The Nature Conservancy, Florida Chapter, Florida Department of Environmental Protection, Division of Recreation and Parks, Arbuckle Working Group of land managers in Polk and Highlands Counties, Florida Department of Environmental Protection, Division of State Lands, U.S. Fish and Wildlife Service, Southeast Region, Ecological Services	Management: Habitat Maintenance and Manipulation	Labor type not yet selected	Applies to Prunus, Bonamia, Eriogonum, Nolina, and Lupinus only. The remaining species are now covered by the South Florida Multi-Species Recovery Plan.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Scrub lupine (Lupinus aridorum), Scrub buckwheat (Eriogonum longifolium var. gnaphalifolium), Scrub plum (Prunus geniculata), Florida bonamia (Bonamia grandiflora), Britton's beargrass (Nolina brittoniana)	1	2.6	Monitor each site	Ongoing Current	FY 1995 - FY 1999		County governments, Universities, Florida Department of Agriculture and Consumer Services, including Forestry Division, United States Air Force, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife, U.S. Forest Service, U.S. Dept. of Agriculture, The Nature Conservancy, Florida Chapter, Florida Department of Environmental Protection, Division of Recreation and Parks, Arbuckle Working Group of land managers in Polk and Highlands Counties, Florida Department of Environmental Protection, Division of State Lands, U.S. Fish and Wildlife Service, Southeast Region, Ecological Services	Research: Demographic Studies	Labor type not yet selected	Applies to Prunus, Bonamia, Eriogonum, Nolina, and Lupinus only. The remaining species are now covered by the South Florida Multi-Species Recovery Plan.
Scrub lupine (Lupinus aridorum), Scrub buckwheat (Eriogonum longifolium var. gnaphalifolium), Scrub plum (Prunus geniculata), Florida bonamia (Bonamia grandiflora), Britton's beargrass (Nolina brittoniana)	1	3.2	Long term storage of seed	Partially Complete	FY 1995 - FY 1999		U.S. Department of Agriculture, Bok Tower Gardens	Management: Propagation	Labor type not yet selected	Partially completed work on Nolina, Bonamia, Prunus, and Lupinus only. Status on this action is unknown for Eriogonum. For all other species, refer to the South Florida Multi-Species Recovery Plan.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Scrub lupine (Lupinus aridorum), Scrub buckwheat (Eriogonum longifolium var. gnaphalifolium), Scrub plum (Prunus geniculata), Florida bonamia (Bonamia grandiflora), Britton's beargrass (Nolina brittoniana)	1	3.3	Propagate plants	Partially Complete	FY 1995 - FY 1999		Bok Tower Gardens	Management: Propagation	Labor type not yet selected	Partially completed work on Nolina, Bonamia, Prunus, and Lupinus only. Status on this action is unknown for Eriogonum. For all other species, refer to the South Florida Multi-Species Recovery Plan. Ongoing propagation is occurring for Lupinus for reintroduction at several sites.
Scrub lupine (Lupinus aridorum), Scrub buckwheat (Eriogonum longifolium var. gnaphalifolium), Scrub plum (Prunus geniculata), Florida bonamia (Bonamia grandiflora), Britton's beargrass (Nolina brittoniana)	1	3.4	Maintain collection of living plants	Partially Complete	FY 1995 - FY 1999		Bok Tower Gardens	Management: Other	Labor type not yet selected	Partially completed work on Nolina, Bonamia, Prunus, and Lupinus only. Status on this action is unknown for Eriogonum. For all other species, refer to the South Florida Multi-Species Recovery Plan.
Scrub lupine (Lupinus aridorum), Scrub buckwheat (Eriogonum longifolium var. gnaphalifolium), Scrub plum (Prunus geniculata), Florida bonamia (Bonamia grandiflora), Britton's beargrass (Nolina brittoniana)	1	4.1	Prioritize species for establishment of new populations	Partially Complete	FY 1995 - FY 1999		Bok Tower Gardens , The Nature Conservancy, Florida Chapter, U.S. Fish and Wildlife Service, Southeast Region, Ecological Services, Managers of public and private lands with these listed species	Management: Planning	Labor type not yet selected	Partially completed work on Nolina, Bonamia, Prunus, Lupinus, and Eriogonum. For all other species, refer to the South Florida Multi-Species Recovery Plan. New populations of Lupinus have been established at several new sites in 2009 and 2010. Monitoring has been occurring at these sites since 2009.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Scrub lupine (Lupinus aridorum), Scrub buckwheat (Eriogonum longifolium var. gnaphalifolium), Scrub plum (Prunus geniculata), Florida bonamia (Bonamia grandiflora), Britton's beargrass (Nolina brittoniana)	1	4.2	Evaluate ecological/reproductive requirements of species under consideration for new populations	Partially Complete	FY 1995 - FY 1999		Universities, Florida Department of Agriculture and Consumer Services, including Forestry Division, Bok Tower Gardens, The Nature Conservancy, Florida Chapter, U.S. Fish and Wildlife Service, Southeast Region, Ecological Services	Research: Reintroduction	Labor type not yet selected	May require more time and funds if genetic testing of wild populations is needed. Partially completed work on Nolina, Bonamia, Prunus, Lupinus, and Eriogonum. For all other species, refer to the South Florida Multi-Species Recovery Plan.
Scrub lupine (Lupinus aridorum), Scrub buckwheat (Eriogonum longifolium var. gnaphalifolium), Scrub plum (Prunus geniculata), Florida bonamia (Bonamia grandiflora), Britton's beargrass (Nolina brittoniana)	1	4.3	Introduce founder plants into sites for new populations	Partially Complete	FY 1995 - FY 1999		Managers of public and private lands with these listed species, Propagating agencies	Management: Reintroduction, Research: Management Techniques, Research: Reintroduction	Contract	No data for Nolia, Bonamia, Prunus. For all other species, refer to the South Florida Multi-Species Recovery Plan.
Scrub lupine (Lupinus aridorum), Scrub buckwheat (Eriogonum longifolium var. gnaphalifolium), Scrub plum (Prunus geniculata), Florida bonamia (Bonamia grandiflora), Britton's beargrass (Nolina brittoniana)	1	4.4	Monitor new populations	Ongoing Current	FY 1995 - FY 1999		Managers of public and private lands with these listed species	Management: Population Monitoring, Management: Propagation, Management: Reintroduction, Research: Management Techniques, Research: Reintroduction	Labor type not yet selected	Ongoing monitoring of introduced Lupinus populations at two public conservation parcels. No projects for Nolina, Bonamia, Prunus, and Eriogonum. For all other species, refer to the South Florida Multi-Species Recovery Plan.
Scrub lupine (Lupinus aridorum), Scrub buckwheat (Eriogonum longifolium var. gnaphalifolium), Scrub plum (Prunus geniculata), Florida bonamia (Bonamia grandiflora), Britton's beargrass (Nolina brittoniana)	2	5.1	Conduct population viability analysis for short-lived herbs	Obsolete			Universities	Work type not yet selected	Labor type not yet selected	This action does not apply to Nolina, Eriogonum, Lupinus, Bonamia, or Prunus, because they are all perennials. For all other species, refer to the South Florida Multi-Species Recovery Plan.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Scrub lupine (Lupinus aridorum), Scrub buckwheat (Eriogonum longifolium var. gnaphalifolium), Scrub plum (Prunus geniculata), Florida bonamia (Bonamia grandiflora), Britton's beargrass (Nolina brittoniana)	2	5.2	Refine recovery objectives	Ongoing Current	FY 1995 - FY 1999		All parties	Management: Planning	Labor type not yet selected	The action is unknown for Lupinus, Prunus, and Nolina. For all other species, refer to the South Florida Multi-Species Recovery Plan. For all other species, refer to the South Florida Multi-Species Recovery Plan.
Scrub lupine (Lupinus aridorum), Scrub buckwheat (Eriogonum longifolium var. gnaphalifolium), Scrub plum (Prunus geniculata), Florida bonamia (Bonamia grandiflora), Britton's beargrass (Nolina brittoniana)	2	5.3	Plan post-recovery monitoring	Not Started			U.S. Fish and Wildlife Service, Southeast Region, Ecological Services, Managers of public and private lands with these listed species	Work type not yet selected	Labor type not yet selected	Not started for Prunus, Lupinus, Nolina, Eriogonum, or Bonamia, because these species are all still listed. For all other species, refer to the South Florida Multi-Species Recovery Plan.
Scrub lupine (Lupinus aridorum), Scrub buckwheat (Eriogonum longifolium var. gnaphalifolium), Scrub plum (Prunus geniculata), Florida bonamia (Bonamia grandiflora), Britton's beargrass (Nolina brittoniana)	3	6	Enforce protective legislation	Unknown			Florida Department of Agriculture and Consumer Services, including Forestry Division, Florida Department of Environmental Protection, Division of Recreation and Parks, U.S. Fish and Wildlife Service, Division of Law Enforcement	Work type not yet selected	Labor type not yet selected	Applies to Prunus, Bonamia, Eriogonum, Nolina, and Lupinus only. The remaining species are now covered by the South Florida Multi-Species Recovery Plan.
Scrub lupine (Lupinus aridorum), Scrub buckwheat (Eriogonum longifolium var. gnaphalifolium), Scrub plum (Prunus geniculata), Florida bonamia (Bonamia grandiflora), Britton's beargrass (Nolina brittoniana)	1	7	Provide public information	Ongoing Current	FY 1995 - FY 1999		County governments, Universities, Florida Department of Agriculture and Consumer Services, including Forestry Division, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife, Bok Tower Gardens, U.S. Fish and Wildlife Service, Southeast Region, Ecological Services	Other: Information and Education	Labor type not yet selected	Status applies to Nolina, Bonamia, Prunus, Lupinus, and Eriogonum only. For all other species, refer to the South Florida Multi-Species Recovery Plan.